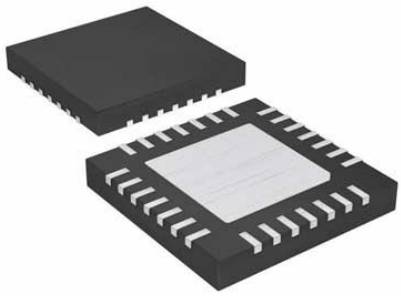
5T9306NLGI

Data Sheet

CLOCK BUFFER, 1GHZ, -40 TO 85DEG C New

Manufacturers	Renesas Technology Corp
Package/Case	QFN-28
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for 5T9306NLGI or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

The 5T9306 2.5V differential clock buffer is a user-selectable differential input to six LVDS outputs. The fanout from a differential input to six LVDS outputs reduces loading on the preceding driver and provides an efficient clock distribution network. The 5T9306 can act as a translator from a differential HSTL, eHSTL, LVEPECL (2.5V), LVPECL (3.3V), CML, or LVDS input to LVDS outputs. A single-ended 3.3V / 2.5V LVTTL input can also be used to translate to LVDS outputs. The redundant input capability allows for an asynchronous change-over from a primary clock source to a secondary clock source. Selectable reference inputs are controlled by SEL. The 5T9306 outputs can be asynchronously enabled/disabled. When disabled, the outputs will drive to the value selected by the GL pin. Multiple power and grounds reduce noise.

Features

Guaranteed Low Skew < 25ps (max)

Very low duty cycle distortion < 125ps (max)

High speed propagation delay < 1.75ns (max)

Additive phase jitter, RMS 0.159ps (typical) @ 125MHz

Up to 1GHz operation

Selectable inputs

Hot insertable and over-voltage tolerant inputs

3.3V / 2.5V LVTTL, HSTL, eHSTL, LVEPECL (2.5V), LVPECL (3.3V), CML, or LVDS input interface

Selectable differential inputs to six LVDS outputs

Power-down mode

2.5V VDD

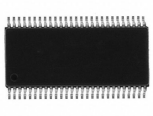
Available in VFQFPN package

Related Products

5T30553DCGI8

Renesas Technology Corp

SOP8



5T30553DCG8

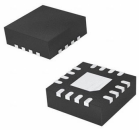
Renesas Technology Corp

8-SOIC (0.154, 3.90mm Width)

5T30553DCG

Renesas Technology Corp

SOIC-8



5T9306NLGI8

Renesas Technology Corp

28-VFQFN

IS82C54-10Z

Renesas Technology Corp

PDIP-28

ICM7555IBAZ-T

Renesas Technology Corp

SOIC-8

CP82C84AZ

Renesas Technology Corp

PDIP-18

CS82C54-10Z

Renesas Technology Corp

PLCC-28